

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for fabricating a surface mountable chip inductor, comprising:

forming a cylindrical body by mixing ferrite or ceramic powder with a thermoplastic organic binder;

forming a metal layer on the surface of the cylindrical body;

processing the metal layer to form ~~forming~~ a coil pattern as a spiral shape ~~on the metal layer~~;

inserting the cylindrical body into a square-shaped mold; and

applying pressure and heat to the mold ~~inserted cylindrical body at a certain temperature~~ to transform the cylindrical body into a square-shaped body.

2. (Canceled)

3. (Currently Amended) The method of claim 1, wherein a material of the metal layer is selected from the group including at least one of Ag, Al, Au, Pt, Ni, Cu, Pd and Sn ~~and a metal alloy including at least one of Ag, Al, Au, Pt, Ni, Cu, Pd and Sn.~~

4. (Previously Presented) The method of claim 1, wherein the metal layer is fabricated on the surface of the cylindrical body by dipping, plating or sputtering so as to have a certain thickness.

5. (Previously Presented) The method of claim 1, wherein said coil pattern is fabricated by a laser process or a mechanical process.

6. (Withdrawn) The method of claim 1, wherein the coil pattern forming process comprises the steps of:

winding a thread-shaped flexible material including conductive paste on the surface of the cylindrical body; and
hardening the conductive paste included in the flexible material.

7. **(Withdrawn)** The method of claim 6, wherein the thread-shaped flexible material includes a metal element by passing through a container containing conductive paste.

8. **(Withdrawn)** The method of claim 6, wherein the thread-shaped flexible material is a combustible material vanished in a following sintering process.

9. **(Withdrawn)** The method of claim 1, wherein the coil pattern forming process comprises the steps of:

winding a tape having a certain thickness and a width on the surface of the cylindrical body as a spiral shape with a certain interval;
coating conductive paste on a distance between the wound tapes; and
hardening the coated conductive paste.

10. **(Withdrawn)** The method of claim 9, wherein the tape is a combustible material vanished in a following sintering process.

11. **(Withdrawn)** The method of claim 1, wherein the coil pattern forming process comprises the steps of:

winding a thread-shaped flexible material free of conductive paste on the outer circumference of the cylindrical body as a spiral shape having a certain interval;
coating conductive paste on the outer circumference of the cylindrical body by dipping the cylindrical body in a container containing the conductive paste for a certain time; and
hardening the coated conductive paste for a certain time.

12. (Withdrawn) The method of claim 11, further comprising:
eliminating the flexible material from the cylindrical body.

13. (Previously Presented) The method of claim 1, including a sintering process and wherein the organic binder is a material that is removed during the sintering process of the cylindrical body.

14. (Currently Amended) The method of claim 13, wherein the organic binder is selected from the group including at least one of ~~comprises at least one of a group of elements in the group consisting of:~~ PVA, PVB, polyethylene, polystyrene, polyvinylchloride and polyamide.

15. (Original) The method of claim 1, wherein the section of the square-shaped mold is a quadrangle.

16. (Original) The method of claim 1, further comprising:
forming an exterior coating layer on the cylindrical body with a mixture of ferrite or ceramic powder and thermoplastic organic binder after forming the spiral coil pattern on the surface of the cylindrical body.

17. (Withdrawn) The method of claim 16, wherein the exterior coating layer forming process is performed after transforming the cylindrical body into a square-shaped body.

18. (Withdrawn) The method of claim 1, further comprising:
supplying an additional mixture around the cylindrical body inside the square-shaped mold so as to form a square-shaped body after inserting the cylindrical body into the square-shaped mold.

19. (Withdrawn) The method of claim 18, wherein the additional mixture is a material same as the material used for forming the cylindrical body.

20. (Previously Presented) The method of claim 1, further comprising:
cutting the transformed square-shaped body to a certain length.

21. (Previously Presented) The method of claim 1, further comprising:
sintering the transformed square-shaped body; and
forming an external electrode on each end of the sintered body.

22. (Previously Presented) A method for fabricating a surface mountable chip inductor, comprising:
forming a cylindrical body by mixing ferrite or ceramic powder with a thermoplastic organic binder;
forming a coil pattern on a surface of the cylindrical body; and
transforming the cylindrical body into a square-shaped body through a square-shaped extruder.

23. (Previously Presented) A method for fabricating a surface mountable chip inductor, comprising:
forming a tubular cylindrical body from a mixture of ferrite or ceramic powder with thermoplastic organic binder;
forming a coil pattern on an outer surface of the tubular, cylindrical body; and
reshaping the hollow cylindrical body into a hollow body that has four sides that meet in four corners by processing the hollow cylindrical body in a corresponding mold whose interior shape is assumed by cylindrical hollow body when the cylindrical body is heated to a given temperature.